



(1) Publication number:

0 408 526 A3

## (2) EUROPEAN PATENT APPLICATION

(21) Application number: 90830320.9 (51) Int. Cl.5: **B65H** 18/16

2 Date of filing: 11.07.90

3 Priority: 11.07.89 IT 947689

43 Date of publication of application: 16.01.91 Bulletin 91/03

Designated Contracting States:
AT DE ES GB GR NL

Bate of deferred publication of the search report: 02.01.92 Bulletin 92/01

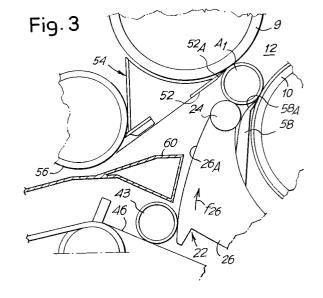
Applicant: PERINI NAVI S.p.A. Viale Carducci, 427 I-55100 Lucca(IT)

Inventor: Biagiotti, Guglielmo Via di Vorno No. 105 I-55012 Capannori, Lucca(IT)

Representative: Mannucci, Gianfranco, Dott.-Ing.
Ufficio Tecnico Ing. A. Mannucci Via della Scala 4
I-50123 Firenze(IT)

(54) Rewinding machine for the formation of rolls or logs, and winding method.

(57) The rewinding machine of the present invention produces rolls or logs of paper such as toilet paper, kitchen towels, etc. It includes an upper winding cylinder (9; 109), a lower winding cylinder (10) forming with the upper one an interspace (12), a mobile roller (14) able to define with said two cylinders a space in which the roll is wound. A pusher (22) inserts individual cores (A) in said interspace, and an applicator (34, 36, 38) wets the cores with adhesive. In combination with one (9; 109) of the two winding cylinders (9, 109; 10) a fixed surface (52; 80) is provided. A web of incoming paper N slides along the surface (52; 80). The pusher (22) moves the core (A1) at an insertion speed which is lower than the paper-feeding speed. During its insertion into the interspace (12) the core (A1) moves toward the fixed surface (52; 80), providing a temporary braking effect on the web N lying between the fixed surface (52; 80) and the core (A1). This causes the web to tear between the just-completely formed roll (R) and the incoming core (A1).



## **EUROPEAN SEARCH REPORT**

DOCUMENTS CONSIDERED TO BE RELEVANT					EP 90830320.9	
Category	Citation of document with i of relevant pa	ndication, where appropriate, issages	Reie to cl		CLASSIFICATION OF THE APPLICATION (Int. Cl. 5)	
A	DE - A1 - 2 52 (HOBEMA MASCH) * Fig. 1-3	(NENFABRIK)	1-6	:	B 65 H 18/16	
A	FR - A1 - 2 54 (PAPER CONVERT * Fig. 4,7	TING MACHINE)	1-6			
A.	<u>US - A - 4 828</u> (HERTEL) * Fig. 4-9		1-6			
A	US - A - 4 783 (AKIRA SHIMIZU * Fig. 2; 0	J)	1-6			
					TECHNICAL FIELDS SEARCHED (Int. CL5)	
					B 65 H 18/00 B 65 H 19/00	
The present search report has been drawn up for all claims				·		
Place of search Date of com		Date of completion of the	search	Examiner		
VIENNA 28-10-1		28-10-1991	991 JASICEK			
X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background		E : earlier after ti other D : docum L : docum	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons			
		å : membe	&: member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P0401)